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Cover: β -synuclein is present in dendritic growth cones in developing cortical neurons. Mouse cortical neuron cultures at 3 days in vitro were used to immunolocalize AMPA receptor GluR1 (red staining) and β -synuclein (green staining). In dendritic growth cones, β -synuclein is discretely localized at the base of the growth cone (see dendritic growth cones at left of cell detected with GluR1 antibodies). This localization provides insight into the possible functions of β -synuclein. See article by Lesuisse and Martin on page 9.

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Cover: A confocal laser microscope image of cells colocalized (yellow fluorescence) for a cell proliferation marker, BrdU (red fluorescence), and a neuronal marker, TuJ1 (green fluorescence), in the subventricular zone of a female prairie vole. From the article by Fowler et al. on page 115.

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Cover: Coaggregation of beads coated with proteins shows that L1 beads (red) bind well to themselves forming large aggregates but only weakly to beads coated with a splicing variant lacking exon 2 called $\Delta 2$ (green); $\Delta 2$ is associated with a human mutation in L1. From the article by Jacob et al. on pages 177–189.

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Cover: High resolution imaging demonstrates colocalization of dynein components and activated Trk receptors in axons. Longitudinal sections of rat sciatic nerve were immunostained for activated Trk (in red) and dynamitin, a component of the dynactin complex (in green). Deconvolved image of a single optical section shows dynamitin within the Schwann cells (green), surrounding individual axons containing punctate phospho-Trk (red). Within the axons, many phospho-Trk containing vesicles colocalize with dynein and dynamitin (yellow). See article by Bhattacharyya et al., p. 302.

